

WHAT IS CLAIMED IS:

1 1. A purified, isolated DNA sequence comprising the
2 sequence as set out in Figure 5 or its complementary strand and
3 DNA sequences which hybridize under stringent hybridization
4 conditions with said DNA sequences.

1 2. A purified, isolated DNA sequence consisting
2 essentially of a DNA sequence encoding a polypeptide having an
3 amino acid sequence sufficiently duplicative of human bac-
4 tericidal/permeability-increasing protein to allow possession
5 of the biological property of increasing the permeability and
6 killing of susceptible gram negative bacteria.

1 3. A purified, isolated DNA sequence which hybridizes
2 under stringent hybridization conditions with DNA sequences
3 that encode natural bactericidal/permeability increasing
4 holoprotein.

1 4. A purified, isolated DNA sequence having the
2 sequence of from nucleotide 123 to about nucleotide 780 as set
3 out in Figure 5.

1 5. The DNA sequence of claim 4 comprising a biologi-
2 cally-active fragment of bactericidal/permeability-increasing
3 protein.

1 6. A purified, isolated protein having the properties
2 of naturally occurring human bactericidal/permeability-increas-
3 ing protein.

1 7. The purified, isolated protein of claim 7 compris-
2 ing the amino acid sequence as set out in Figure 5.

1 8. The purified, isolated protein comprising the
2 amino acid sequence from amino acid residue 1 to about amino
3 acid residue 220 as set out in Figure 5.

1 9. A purified, isolated gene encoding human bac-
2 tericidal/permeability-increasing protein.

1 10. A DNA plasmid vector consisting essentially of the
2 DNA sequence of claim 1 in the proper reading frame.

1 11. A prokaryotic or eukaryotic cell stably trans-
2 formed or transfected with the DNA vector of claim 10.